

CLAIMS

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¹²⁰ 1. A cooling assembly comprising:
 a heat sinking member having a plurality of recesses defined therein;
 a power module disposed on said heat sinking member, said power module having a casing with pluralities of indentations therein, said indentations being positioned relative to said recesses to locate said power module on said heat sinking member; and
 a plurality of spring clips, each of said spring clips having first and second extensions, one of said first and second extensions cooperating with a corresponding one or said recesses and the other one of said first and second extensions corresponding with a corresponding one or said indentations to retain said power module on said heat sinking member and to facilitate heat transfer during operation of said power module.
2. The cooling assembly of claim 1, further comprising a sealing member.
3. The cooling assembly of claim 2, wherein the sealing member is a gasket.
4. The cooling assembly of claim 4, wherein the said heat sinking member includes a channel defined therein for allowing coolant to flow therethrough.
5. The cooling assembly of claim 4, wherein the heat sinking member includes an opening leading to said channel to allow said power module to directly contact coolant flowing in said channel.

6. The cooling assembly of claim 1 wherein said heat sinking member is an elongated generally rectangular member.

7. The cooling assembly of claim 5, wherein said opening is generally rectangular.

8. The cooling assembly of claim 5, wherein said power module includes a baseplate sealably mounted over said opening.

9. The cooling assembly of claim 1, wherein said spring clips comprise generally C-shaped spring clips.

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10. A method of assembling a cooling assembly system, comprising:

locating a power module on a heat sinking member receptive to coolant flow therethrough; and

5 coupling said power module and the heat sinking member using a plurality of spring clips.

11. The method of assembly of claim 10 further comprising:

locating a sealing member between said power module and said heat sinking member.

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